IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended). A data processing apparatus~~, for identifying whether image data was generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity,~~ comprising:

an interface configured to receive first image data to be identified and second image data generated by a predetermined image generating apparatus;

a correlation detecting ~~means for detecting~~ unit configured to detect a correlation between said first image data and second image data ~~for reference generated using said predetermined image generating apparatus and~~ based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity of the predetermined image generating apparatus and to generate correlation data; and

an identifying ~~means for identifying~~ unit configured to identify that [[if]] said first image data was generated using said image generating apparatus ~~based on said correlation detected by said correlation detecting means~~ when a value indicated by an origin of the correlation data is greater than a predetermined number of standard deviations based on the correlation data.

2 (Canceled).

3 (Currently Amended). A data processing apparatus as set forth in claim 1, wherein said correlation detecting ~~means cuts~~ unit is configured to cut out third image data from said first image data based on a first cutout position, ~~cuts~~ to cut out fourth image data from said second image data based on a second cutout position, and ~~detects~~ to detect the correlation

between said third image data and said fourth image data a plurality of times by changing said first cutout position and said second cutout position.

4 (Currently Amended). A data processing apparatus as set forth in claim 1, wherein said apparatus further comprises:

a reference image generating ~~means for generating~~ unit configured to generate a plurality of image data using said predetermined image generating apparatus and ~~averaging~~ to average said plurality of image data to generate said second image data; and

said correlation detecting ~~means detects~~ unit is configured to detect said correlation using said second image data generated by said reference image generating ~~means~~ unit .

5 (Currently Amended). A data processing apparatus as set forth in claim 1, wherein said apparatus further comprises:

a reference image generating ~~means for generating~~ unit configured to generate a plurality of said second image data by making light strike said light receiving elements in a plurality of states of different lens apertures when said image generating apparatus makes light strike said plurality of light receiving elements through a lens and said correlation detecting ~~means detects~~ unit is configured to detect said correlation using said plurality of second image data generated by said reference image generating ~~means~~ unit.

6 (Currently Amended). A data processing apparatus as set forth in claim 1, wherein said correlation detecting ~~means~~ ~~generates~~ unit is configured to generate the correlation data showing [[as]] said correlation between said first image data and said second image data ~~said correlation detected~~ by successively shifting in two dimensions a relative position between an image of said first image data and an image of said second image data in units of image data

corresponding to said light receiving elements.

7 (Currently Amended). A data processing apparatus as set forth in claim 6, wherein said correlation detecting ~~means~~ unit comprises:

a transforming ~~means for orthogonal transformation of~~ unit configured to orthogonally transform said first image data and said second image data to generate first frequency component data and second frequency component data,

a dividing ~~means for dividing~~ unit configured to divide each complex number data forming said first frequency component data by an absolute value of each complex number data to generate first complex number data and ~~for dividing~~ to divide each complex number data forming said second frequency component data by an absolute value of each complex number data to generate second complex number data,

a substituting ~~means for substituting~~ unit configured to substitute each complex number data forming one of said first complex number data and said second complex number data with complex conjugate complex number data to generate third complex number data,

a multiplying ~~means for multiplying~~ unit configured to multiply the one of said first complex number data and second complex number data not substituted by said substituting ~~means~~ unit and said third complex number data generated by said substituting ~~means~~ unit to generate fourth complex number data, and

an inverse transformation circuit ~~for~~ configured to inverse ~~orthogonal transformation~~ orthogonally transform of said fourth complex number data generated by said multiplying ~~means~~ unit to generate said correlation data.

8 (Currently Amended). A data processing apparatus as set forth in claim 1, further comprising an adding ~~means for adding~~ unit configured to add to said first image data

additional data for preventing copyright infringement when said identifying ~~means~~ unit identifies that said first image data was generated using said image generating apparatus.

9 (Original). A data processing apparatus as set forth in claim 1, wherein said distinctive variations in light receiving sensitivity of said light receiving elements arise in the process of production of said light receiving elements and are difficult to artificially reproduce.

10 (Currently Amended0. A data processing method~~, for identifying if image data was generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity,~~ comprising:

receiving first image data to be identified and second image data generated by a predetermined image generating apparatus;

~~a first step of~~ detecting a correlation between said first image data and second image data ~~for reference generated using said predetermined image generating apparatus and~~ based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity of the predetermined image generating apparatus and generating correlation data;

~~a second step of~~ identifying [[if]] that said first image data was generated using said image generating apparatus ~~based on said correlation detected at said first step~~ when a value indicated by an origin of the correlation data is greater than a predetermined number of standard deviations based on the correlation data.

11 (Currently Amended). A data processing apparatus, ~~for identifying whether first image data to be identified was generated by any image generating apparatus among a plurality of image generating apparatuses generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity,~~ comprising:

~~a holding means for holding a plurality of second image data for reference generated using said plurality of image generating apparatuses,~~

an interface configured to receive first image data to be identified and a plurality of second image data generated by a predetermined image generating apparatus;

a storage unit configured to store the plurality of second image data;

a correlation detecting ~~means for detecting~~ unit configured to detect a correlation between said first image data and said plurality of second image data ~~held by said holding means,~~ stored in said storage unit based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity of the predetermined image generating apparatus and to generate image correlation data; and

an identifying ~~means for identifying~~ unit configured to identify that [[if]] said first image data was generated using any of said plurality of image generating apparatuses ~~based on said correlation detected by said correlation detecting means~~ when a value indicated by an origin of the correlation data is greater than a predetermined number of standard deviations based on the correlation data.

12 (Canceled).

13 (Withdrawn). A data processing apparatus for identifying whether first image data to be identified was generated by an image generating apparatus generating image data based

on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a holding means for holding a plurality of second image data for reference generated in advance using stolen image generating apparatuses,

a correlation detecting means for detecting correlation between said first image data and said second image data held by said holding means, and

an identifying means for identifying if said first image data was generated using a stolen image generating apparatus based on said correlation detected by said correlation detecting means.

14 (Withdrawn). A data processing method performed by a data processing apparatus for identifying whether first image data to be identified was generated by an image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity and holding a plurality of second image data for reference generated in advance using stolen image generating apparatuses, comprising:

a first step of detecting correlation between said first image data and said held second image data and

a second step of identifying if said first image data was generated using a stolen image generating apparatus based on said correlation detected at said first step.

15 (Withdrawn). A data processing apparatus for identifying whether first image data to be identified was generated by an image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a holding means for holding authorized broadcaster data specifying a broadcaster authorized to broadcast image data generated using a predetermined image generating apparatus and second image data for reference generated using said predetermined image generating apparatus,

a correlation detecting means for detecting correlation between said first image data broadcast by a predetermined broadcaster and said second image data held by said holding means,

a first identifying means for identifying if said first image data was generated using a said image generating apparatus based on said correlation detected by said correlation detecting means, and

a second identifying means for identifying if said broadcaster broadcasting said first image data was authorized based on said authorized broadcaster data held by said holding means when said first identifying means identifies that said first image data was generated using said image generating apparatus.

16 (Withdrawn). A data processing method performed by a data processing apparatus for identifying whether first image data to be identified was generated by an image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity and holding authorized broadcaster data specifying a broadcaster authorized to broadcast image data generated using a predetermined image generating apparatus and second image data for reference generated using said predetermined image generating apparatus, comprising:

a first step of detecting correlation between said first image data broadcast by a predetermined broadcaster and said second image data held by said data processing apparatus, a second step of identifying if said first image data was generated using said image generating apparatus based on said correlation detected at said first step, and

a third step of identifying if said broadcaster broadcasting said first image data was authorized based on said authorized broadcaster data held by said data processing apparatus when it was identified at said second step that said first image data was generated using said image generating apparatus.

17 (Withdrawn). A data processing apparatus for searching for image data generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a correlation detecting means for detecting correlation between a plurality of first image data stored in a storing means and second image data for reference generated using said predetermined image generating apparatus and

a searching means for searching for image data generated using said image generating apparatus in said plurality of first image data stored in said storing means based on said correlation detected by said correlation detecting means.

18 (Withdrawn). A data processing method performed by a data processing apparatus for searching for image data generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a first step of detecting correlation between a plurality of first image data stored in a storing means and second image data for reference generated using said predetermined image generating apparatus and a second step of searching for image data generated using said image generating apparatus in said plurality of first image data stored in said storing means based on said correlation detected at said first step.

19 (Withdrawn). A data processing apparatus for identifying if image data is generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a correlation detecting means for detecting correlation between first block image data and second block image data corresponding to said first block image data in a plurality of second block image data forming second image data generated by said image generating apparatus for each of a plurality of first block image data forming the first image data to be identified and

an identifying means for identifying if said first image data was generated based on image data generated using said image generating apparatus based on said correlation detected by said correlation detecting means.

20 (Withdrawn). A data processing apparatus as set forth in claim 19, wherein said identifying means makes said identification based on a distribution of said correlation detected by said correlation detecting means for said plurality of first block image data.

21 (Withdrawn). A data processing apparatus as set forth in claim 19, wherein said identifying means makes said identification based on a number of said first block image data wherein said correlation detected by said correlation detecting means exceeds a predetermined level and a number of said first block image data wherein it does not exceed

said predetermined level among said plurality of first block image data.

22 (Withdrawn). A data processing method for identifying if image data was generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a first step of detecting correlation between first block image data and second block image data corresponding to said first block image data in a plurality of second block image data forming second image data generated by said image generating apparatus for each of a plurality of first block image data forming the first image data to be identified and

a second step of identifying if said first image data was generated based on image data generated using said image generating apparatus based on said correlation detected at said first step.

23 (Withdrawn). A data processing apparatus for identifying whether image data was generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

a correlation detecting means for detecting correlation between first image data to be identified and second image data for reference generated using said image generating apparatus and

an identifying means for identifying if said first image data was generated using said image generating apparatus based on said correlation detected by said correlation detecting means,

said correlation detecting means comprises:

a transforming means for orthogonal transformation of said first image data and said second image data to generate first frequency component data and second frequency component data,

a processing means for processing so that said first frequency component data is more strongly restricted in amplitude compared with said second frequency component data by generating first complex number data based on each of the complex number data forming said first frequency component data and generating second complex number data based on each of the complex number data forming said second frequency component data,

a substituting means for substituting each complex number data forming one of said first complex number data and said second complex number data generated by said processing means with complex conjugate complex number data to generate third complex number data,

a multiplying means for multiplying the one of said first complex number data and second complex number data not substituted by said substituting means and said third complex number data generated by said substituting means to generate fourth complex number data, and an inverse transformation circuit for inverse orthogonal transformation of said fourth complex number data generated by said multiplying means to generate correlation data showing said correlation.

24 (Withdrawn). A data processing apparatus as set forth in claim 23, wherein said processing means divides each complex number data forming said second frequency component data by an absolute value of said complex number data to generate second complex number data and divides each complex number data forming said first frequency component data by a value obtained by performing predetermined processing on the absolute value of said complex number data so that said first frequency component data is more

strongly restricted in amplitude compared with said second frequency component data to generate first complex number data.

25 (Withdrawn). A data processing apparatus as set forth in claim 23, wherein said processing means divides each complex number data forming said second frequency component data by a value obtained by multiplying an absolute value of said complex number data by k1 to generate said second complex number data and divides each complex number data forming said first frequency component data by a value obtained by multiplying an absolute value of said complex number data by k2 (k2>k1) to generate said first complex number data.

26 (Withdrawn). A data processing apparatus as set forth in claim 23, wherein:

said transforming means multiplies predetermined transformation coefficients with said first image data and said second image data to generate said first frequency component data and said second frequency component data and said processing means further processes said second frequency component data defined based on said transformation coefficient so as to make said transformation coefficient corresponding to a predetermined frequency band on the low band side from a predetermined frequency zero.

27 (Withdrawn). A data processing apparatus as set forth in claim 26, wherein said processing means applies further processing to said second frequency component data to make zero said transformation coefficient corresponding to a predetermined frequency at a high band side with respect to a predetermined frequency and in a horizontal direction.

28 (Withdrawn). A data processing apparatus for registering as image data for provision the image data generated by a predetermined image generating apparatus generating image data based on light receiving results of light receiving elements having distinctive variations in light receiving sensitivity, comprising:

an interface for inputting a registration request including first image data to be identified and user identification data,

a storing means for storing said user identification data and second image data for reference linked together,

a correlation detecting means for reading out said second image data from said storing means based on said user identification data included in said registration request input through said interface and detecting correlation between said read second image data and said first image data included in said registration request, and

an identifying means for identifying if said first image data was registered as image data for provision based on said correlation detected by said correlation detecting means.